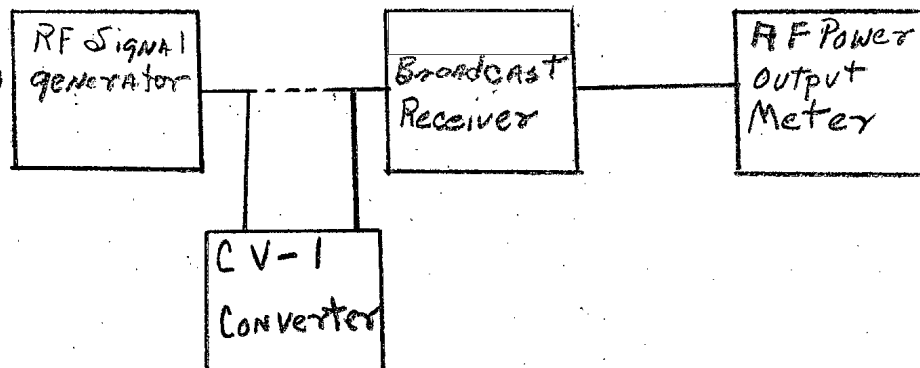


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Relative Sensitivity Measurements:

Set UP



25X1

Test Crystal 7515 Kcs.

Method of Test;

1. The signal generator was matched to the broadcast receiver with a RF input of 200 microvolts. The reading on the AF power output meter was noted as 47 milliwatts.
2. The converter was then inserted between the RF signal generator and the broadcast receiver.
3. The signal generator was adjusted to the receiver and the required RF input to the converter to achieve 47 milliwatts AF output power was found to be 4 microvolts.

25X1

25X1

Therefore;

The relative gain of the CV-1 converter was found to be approximately 50.

Note; This test was made with the converter being powered both by a 1½ volt dry battery and the special 4 wedge solar cell.

DOCUMENT NO. _____
 NO CHANGE IN CLASS. ☐
☐ DECLASSIFIED
 CLASS. CHANGED TO: TS S [©] 2010
 NEXT REVIEW DATE: _____
 AUTH: HR 70-2
 DATE: 4 DEC 1980 REVIEWER: 064540

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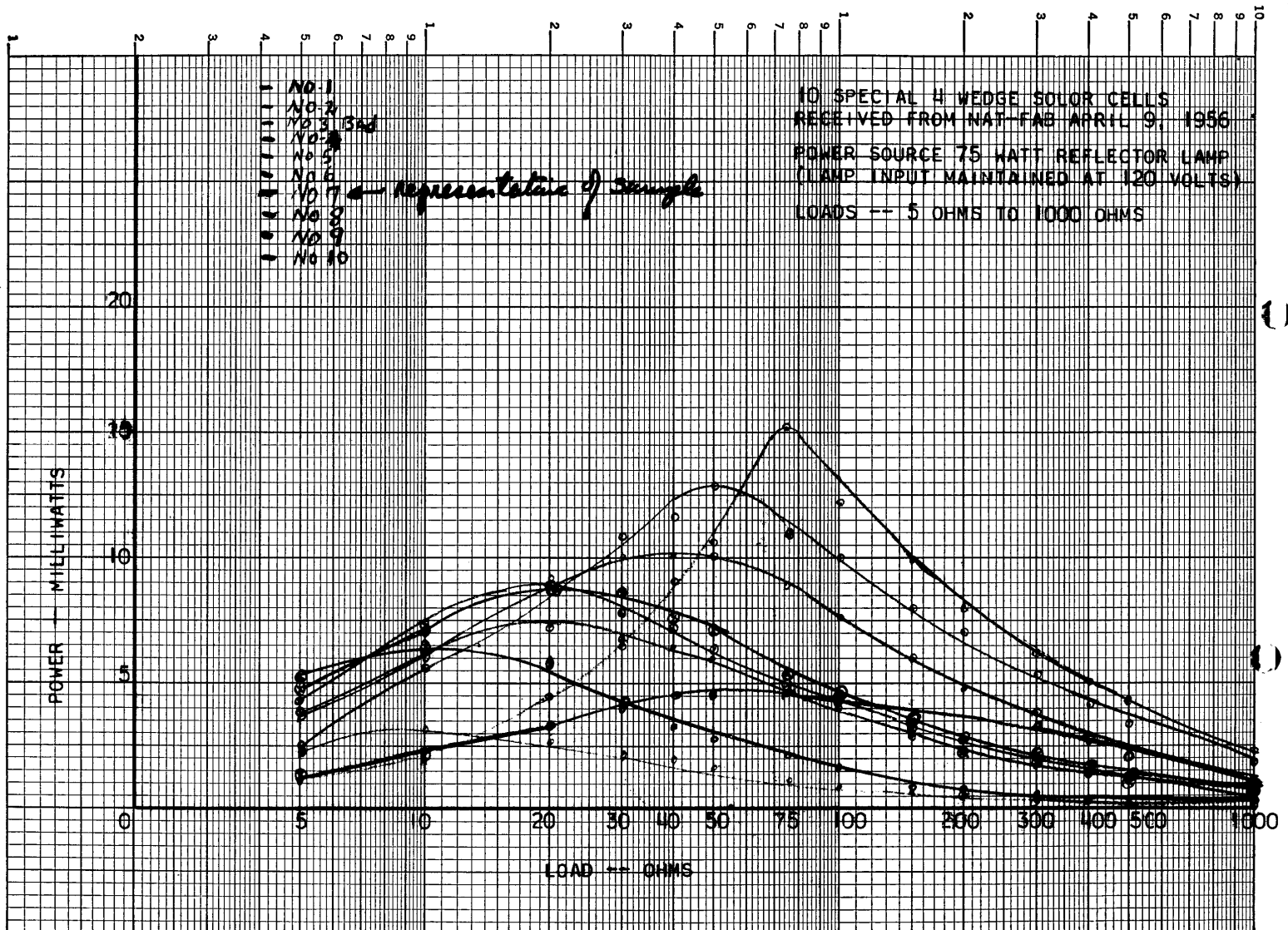
SOLOR CELL POWERING OF THE CV-1 CONVERTER.

An on the Air check of the converter being powered by the special 4 wedge solor cell was made. The results indicate that the solor cell will operate the CV-1 converter very successfully with a minimum amount of sun (cloudy or hazy day), or the light from a reflector lamp.

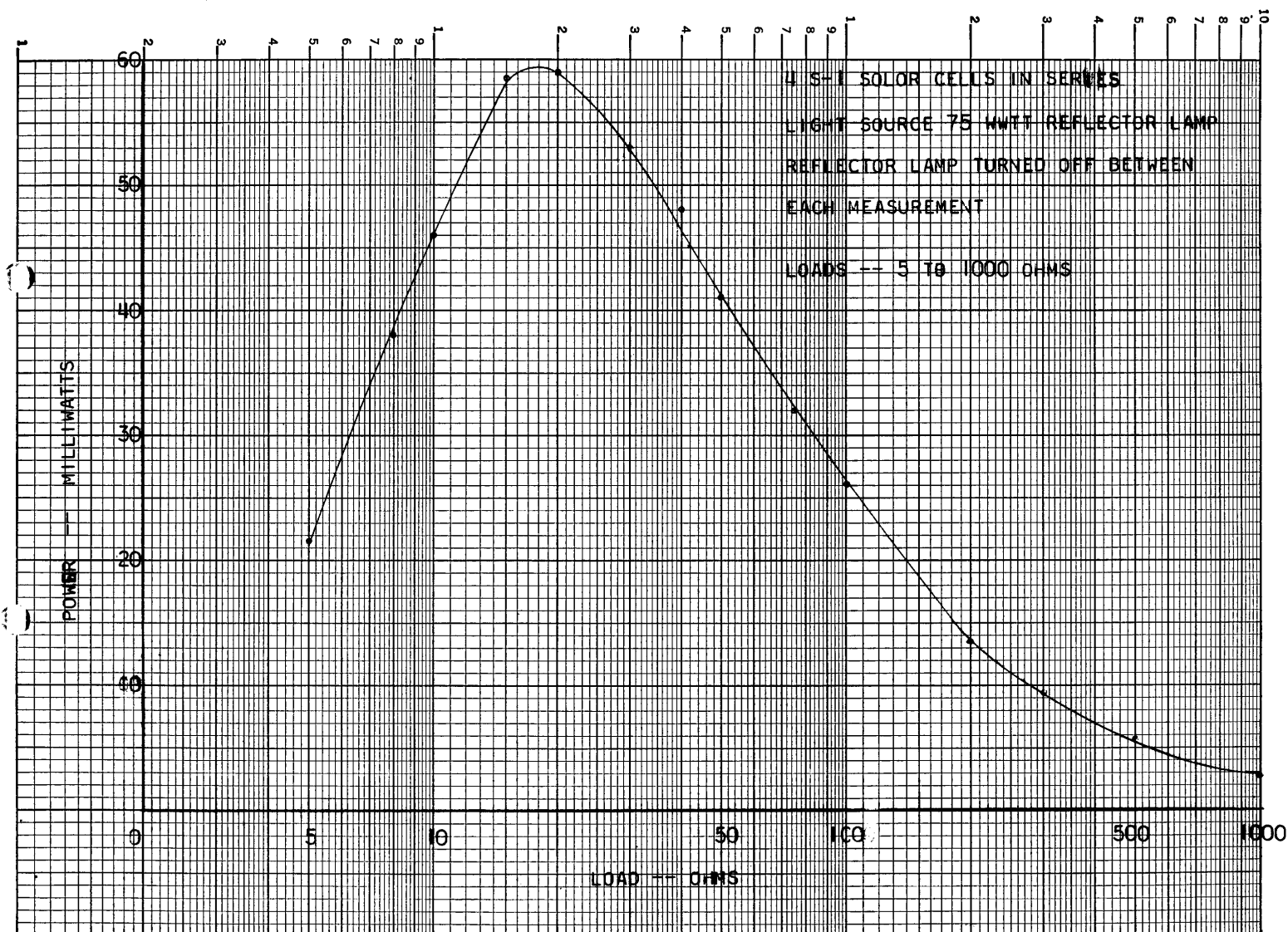
The reflections of the sun upon the solor cell was adjusted so that the voltage from the solor cell dropped as low as .5 volts and the converter operated very successfully.

The Heat generated from the reflector lamp have a tendency to lower the voltage from the solor cell. The day that the solor cell was tested in the sun light was rather cool and no drop in voltage was detected.

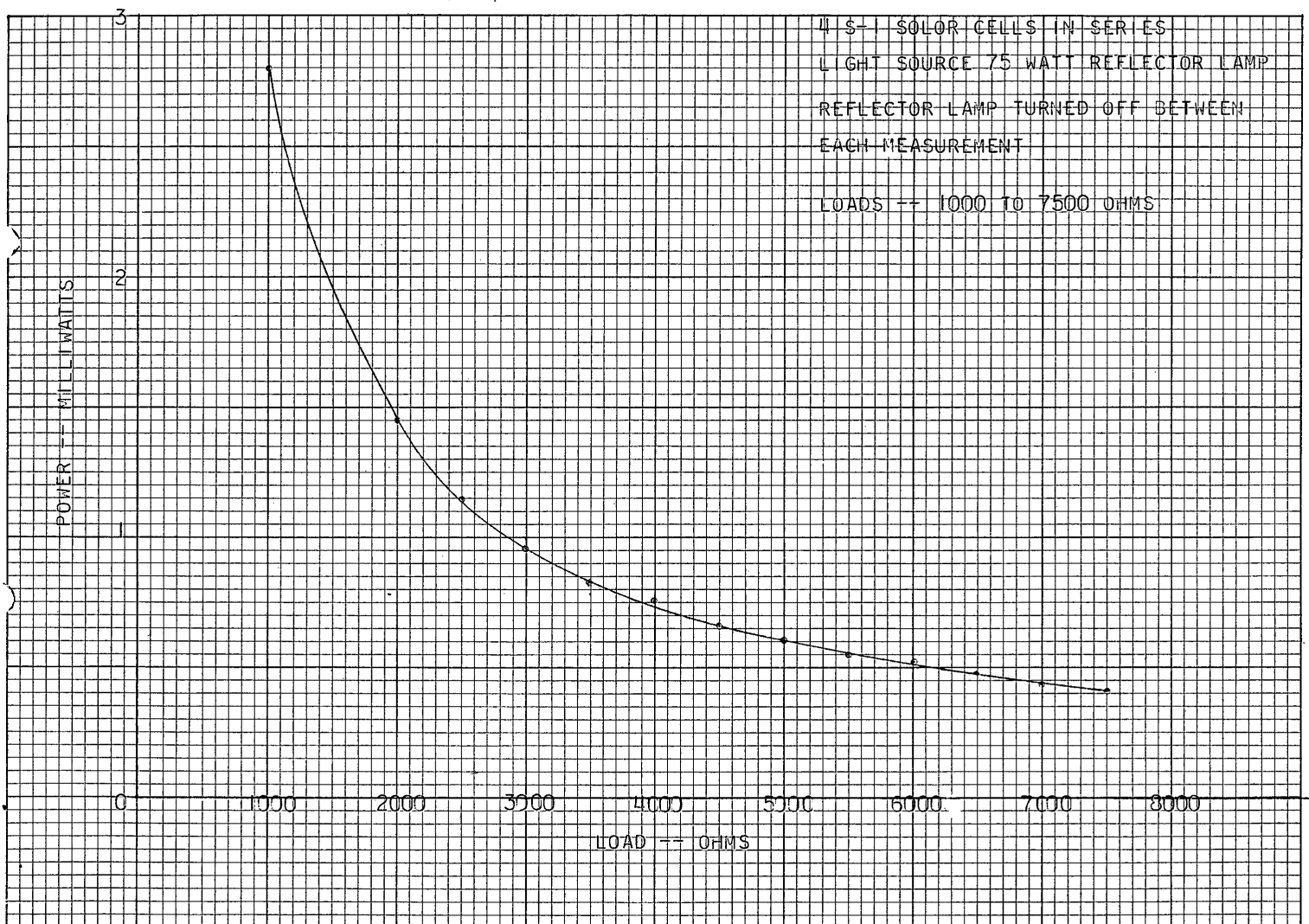
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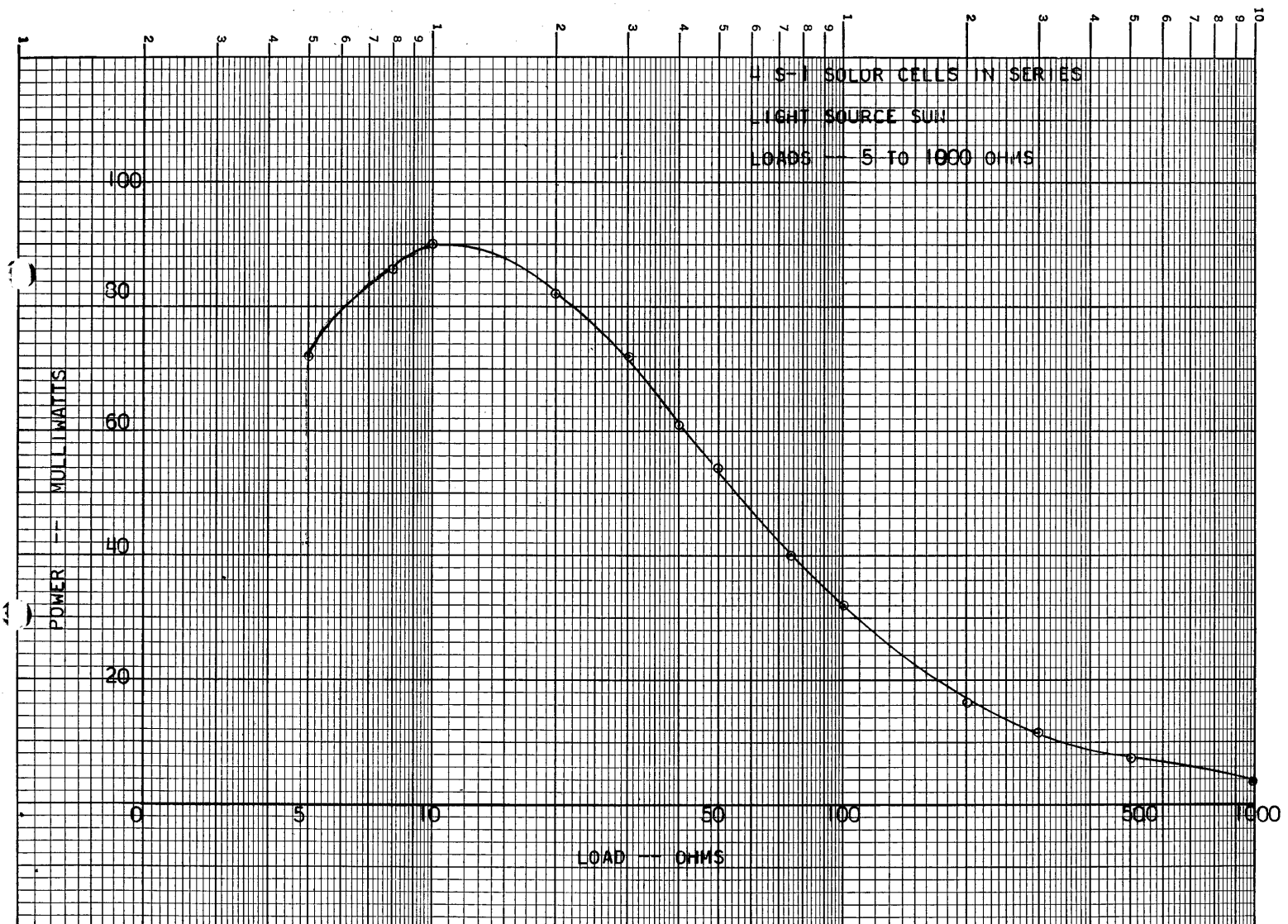
KEUFFEL & ESSER CO. MADE IN U.S.A.
3 CYCLES X 70 DIVISIONS

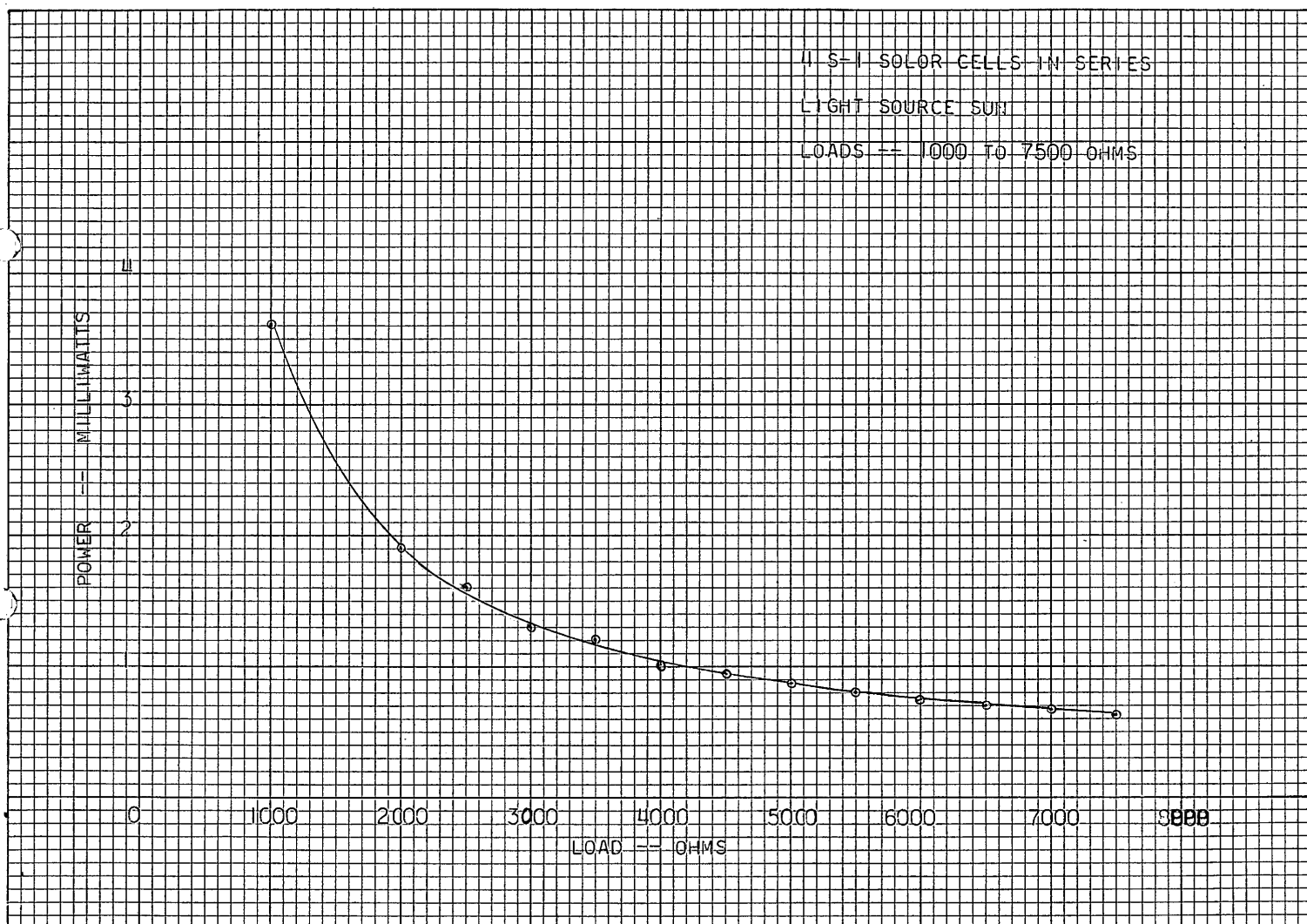


KEUFFEL & ESSER CO. MADE IN U.S.A.

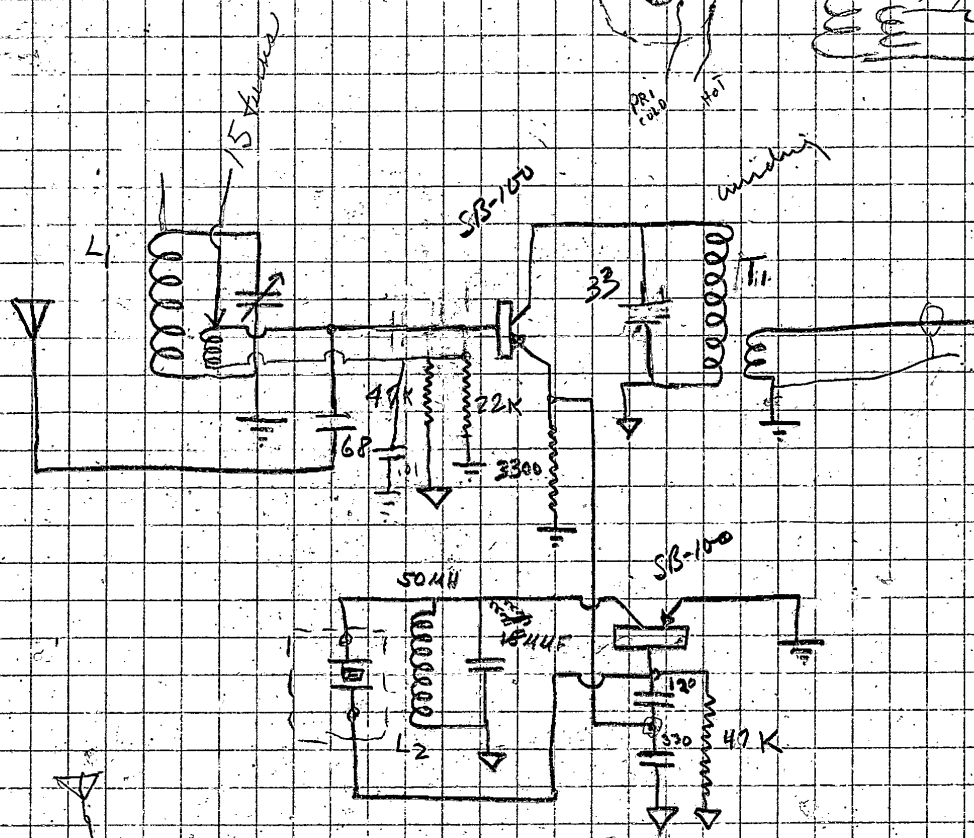


KEUFFEL & ESSER CO. MADE IN U.S.A.
3 CYCLES X 70 DIVISIONS

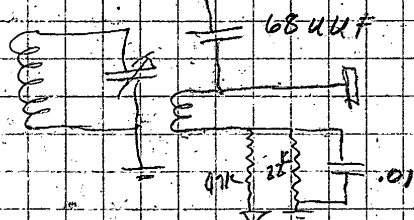
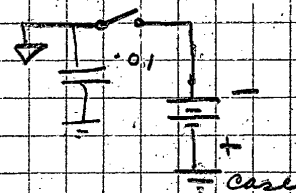




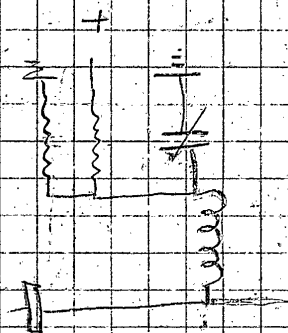
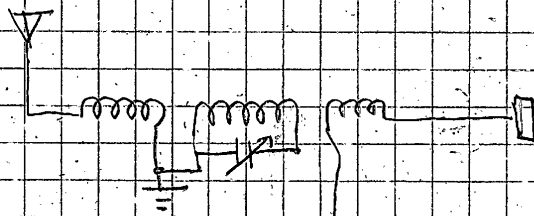
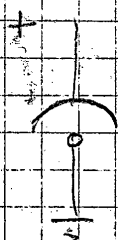
(Sensitivity)

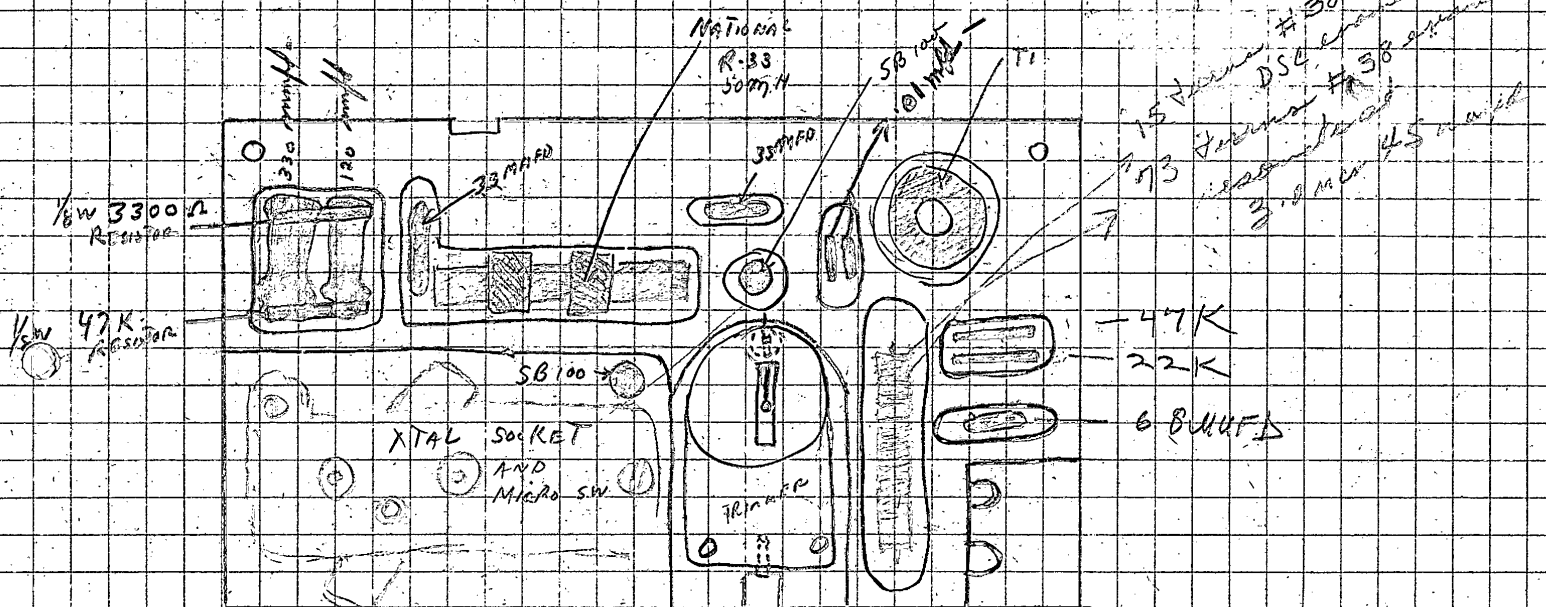


T_1 : Primary
Secondary



L2: 50 uh 33 ma RF chosen
National R-33





50th Day

4 Robert St - Toronto, Ontario, Canada

1500

3 Mar

$$\begin{array}{r} 1500 \\ 1430 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 1450 \\ 3000 \\ \hline 4450 \end{array}$$

$$\begin{array}{r} 3.3 \\ 6.6 \\ \hline 2 \end{array}$$

